

What is claimed is:

1. A tower fan comprising:

a height adjustable pedestal;

a vertical axis fan assembly rotationally coupled to the pedestal; and

a housing enclosing the fan assembly.
2. The tower fan of claim 1 further comprising a motor assembly enclosed within the housing for oscillating the tower fan.
3. The tower fan of claim 1 further comprising a fixation mechanism for maintaining the vertical axis fan assembly at a desired height.
4. A height adjustable tower fan comprising:

a base assembly;

a height-adjustable support column extendable from the base assembly;

a housing assembly rotatably mounted upon the support column;

a vertical axis fan assembly enclosed within the housing assembly and rotatably mounted therein; and

a motor assembly enclosed within the housing for actuating the fan assembly from an inoperative to an operative orientation;

wherein the height-adjustable support column has a first upper end rotatably coupled to the housing assembly and a lower second end insertable within the base assembly, the support column movable between fixed, retracted position and extended positions.

5. The tower fan of claim 4 further comprising means for adjusting the height of the column.

6. The tower fan of claim 5 wherein the support column is comprised of an elongated hollow pillar member and an elongated extension member having a diameter less than the circumference of the pillar member, the pillar member adapted to slidably receive an end of the extension member.

7. The tower fan of claim 6 wherein the means for adjusting the height of the support column is a manually activated release mechanism adapted to receive a portion of the pillar, wherein the release mechanism, upon activation, permits movement of the extension member between said fixed, extended and retracted positions.

8. The tower fan of claim 7 wherein the release mechanism further prevents unwanted movement of the extension member within the pillar member thereby locking the fan assembly at a fixed height.

9. The tower fan of claim 4 further comprising means for controlling rotation of the housing assembly with respect to the support column.

10. The tower fan of claim 9 further comprising means for controlling speed of rotation of the fan assembly.

11. The tower fan of claim 10 wherein the means or controlling the rotation of the housing and the speed of rotation of the fan assembly is a keypad electrically coupled to a microcontroller, the microcontroller programmed to send control signals to the motor assembly.

12. The tower fan of claim 10 wherein the means or controlling the rotation of the housing and the speed of rotation of the fan assembly is a remote control unit wirelessly coupled to a microcontroller, the microcontroller programmed to send control signals to the motor assembly.

13. The tower fan of claim 4 wherein the housing assembly further comprises a filter.

14. The tower fan of claim 4 wherein the base assembly further comprises a weight ballast within the base assembly.

15. A method of adjusting the height of a tower fan assembly comprising the steps of:
providing an adjustable support column rotatably supporting a vertical axis fan assembly,
the support column including an extendable member slidably insertable within a pillar member;
retracting or extending the extendable member to a desired height; and
locking the support column at the desired height, thereby maintaining the fan assembly in
a fixed position.

16. The method of claim 15 wherein the step of locking the support column at the desired height comprises the steps of;

encircling the pillar member with a cylindrical sleeve mechanism; and

activating the sleeve mechanism to trap the extendable member within the pillar member to prevent the extendable member from further retraction or extension.